

ABSTRACT OF THE DISCLOSURE UNDER 37 C.F.R. §1.72(b)

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3 A method for controlling electronics across an RF barrier is disclosed. The
4 method comprises a serial data control method that requires a limited number
5 of signals passing through an RF barrier and does not require a free running
6 clock. This method uses a processor with an associated serial data control
7 bus that is located external to the RF chamber. An address dependent form
8 of the serial bus passes through an interface to the RF cavity. The processor
9 uses the serial bus to control electronics inside the RF cavity. The control
10 method uses a minimum number of signals passing through the interface to
11 the RF cavity, thereby preserving the RF isolation of the RF cavity from the
12 external environment.